

INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL2004/000767

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01C21/36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 489 521 A (SMITHS INDUSTRIES PUBLIC LIMITED COMPANY) 10 June 1992 (1992-06-10) abstract column 3, line 23 - line 28 column 3, line 50 - column 4, line 4; figure 2	1-3, 11, 15-18
X	US 3 258 743 A (SCHUSTER) 28 June 1966 (1966-06-28)	1, 2, 11
Y	column 1, line 42 - line 65 column 2, line 39 - line 64; figures 1a, b ----- -/--	4-10, 12-14

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

11 February 2005

Date of mailing of the international search report

18/02/2005

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Hoekstra, F

INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL2004/000767

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 12, 26 December 1996 (1996-12-26) -& JP 08 219802 A (CASIO COMPUT CO LTD), 30 August 1996 (1996-08-30) abstract paragraphs '0002!, '0006!, '0010!, '0012! - '0015! -----	4-10, 12-14
A	EP 0 370 640 A (SMITHS INDUSTRIES PUBLIC LIMITED COMPANY) 30 May 1990 (1990-05-30) column 3, line 45 - column 4, line 13; figures 1,2 -----	1,11
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 10, 31 October 1997 (1997-10-31) -& JP 09 159480 A (HONDA MOTOR CO LTD), 20 June 1997 (1997-06-20) abstract -----	1,2,4,5, 11,12,16
A	US 5 890 089 A (HOSAKA EIKI ET AL) 30 March 1999 (1999-03-30) abstract column 4, line 51 - line 62 column 5, line 3 - line 19; figure 3 -----	1,5,11
A	US 4 463 355 A (FREDRICKSON LEE R ET AL) 31 July 1984 (1984-07-31) abstract -----	1

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IL2004/000767

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0489521	A	10-06-1992	DE 69117890 D1	18-04-1996
			DE 69117890 T2	29-08-1996
			EP 0489521 A2	10-06-1992
			GB 2250494 A ,B	10-06-1992
			US 5329277 A	12-07-1994
US 3258743	A	28-06-1966	NONE	
JP 08219802	A	30-08-1996	NONE	
EP 0370640	A	30-05-1990	BR 8905912 A	19-06-1990
			DE 68919811 D1	19-01-1995
			DE 68919811 T2	04-05-1995
			EP 0370640 A2	30-05-1990
			ES 2064457 T3	01-02-1995
			GB 2226924 A ,B	11-07-1990
			US 4980683 A	25-12-1990
JP 09159480	A	20-06-1997	NONE	
US 5890089	A	30-03-1999	JP 9184737 A	15-07-1997
US 4463355	A	31-07-1984	NONE	